

INVESTIGATOR'S ANNUAL REPORT

National Park Service

All or some of the information provided may be available to the public

Reporting Year: 1996	Park: Shenandoah NP
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Additional investigators or key field assistants (first name, last name, office phone, office email): Name: Rick Webb Phone: n/a Email: n/a	
Permit#: SHEN1996ARVR	
Park-assigned Study Id. #: unknown	
Project Title: An Integrated Analysis Of Acid Deposition In Shenandoah National Park (N-188)	
Permit Start Date: Jan 01, 1998	Permit Expiration Date Jan 01, 1998
Study Start Date: Jan 01, 1994	Study End Date Jan 01, 1996
Study Status: Completed	
Activity Type: Other	
Subject/Discipline: Water Resources	
Objectives: 1. Document the characteristics of, and trends in, the concentration of major chemical components of streamwater (calcium, magnesium, potassium, sodium, ammonium, nitrate, chloride, sulfate, pH, alkalinity, aluminum, silica, conductivity, and particulate organic matter) that contribute to stream aficionado. Describe the trends and fluxes of these parameters.; ;2. Document the characteristics of, and trends in, the rate of wet and bulk deposition of acid anions (nitrate, chloride, sulfate), or base cations (calcium, magnesium, potassium, sodium, ammonium) at the four locations in SNP that collect precipitation.; ;3. Document the trends in the concentrations of gases (sulfur dioxide) and aerosols (ammonium, nitrate, sulfate) that contribute to dry deposition.; ;4. Determine if acid/base species are accumulating in SNP watersheds. ; ;5. Determine if the current programs measuring inputs and responses should be modified in the future to meet management concerns of SNP.	
Findings and Status: Drafts of Parts 1 and 2 have been submitted for peer review. Revisions are underway and draft of Part 3 is being prepared.	
For this study, were one or more specimens collected and removed from the park but not destroyed during analyses? No	
Funding provided this reporting year by NPS: 0	Funding provided this reporting year by other sources: 0
Fill out the following ONLY IF the National Park Service supported this project in this reporting year by providing money to a university or college	
Full name of college or university:	Annual funding provided by NPS to university or college this reporting year:

n/a	0
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